

04-06-07

PTO/SB/30 (09-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

RCE/\$
70Request
For
Continued Examination (RCE)
TransmittalAddress to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	10/809,205
Filing Date	March 25, 2004
First Named Inventor	Toshimitsu HIRAI
Art Unit	1762
Examiner Name	Brian K. Talbot
Attorney Docket Number	9319S-000717

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 C.F.R. 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

- a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
ii. ☐ Other _____

- b. ☒ Enclosed

- i. ☒ Amendment/Reply
ii. ☐ Affidavit(s)/Declaration(s)
iii. ☐ Information Disclosure Statement (IDS)
iv. ☒ Other Return Postcard

2. **Miscellaneous**

- a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R. 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. 1.17(i) required)
b. ☐ Other _____

3. **Fees** The RCE fee under 37 C.F.R. 1.17(e) is required by 37 C.F.R. 1.114 when the RCE is filed.

- a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 50-3213

- i. ☒ RCE fee required under 37 C.F.R. 1.17(e)
ii. ☒ Extension of time fee (37 C.F.R. 1.136 and 1.17)
iii. ☒ Other Any deficiency for a fee required under 37 C.F.R. 1.16 or 1.17

- b. ☐ Check in the amount of \$ _____ enclosed

- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print /Type)	G. Gregory Schivley/Bryant E. Wade	Registration No. (Attorney/Agent)	27,382/40,344
Signature		Date	April 5, 2007

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below:

Name (Print /Type)	G. Gregory Schivley/Bryant E. Wade	Express Mail Label No.	EV 522 877 629 US (4/5/2007) 00000010 503213 10009205
Signature		Date	April 5, 2007

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EV 522 877 629 US

Effective 2/8/2006. Patent fees are subject to annual revision.

FEE TRANSMITTAL
for FY 2007

APR 05 2007

☐ Applicant claims small entity status. See 37 CFR 1.101.**TOTAL AMOUNT OF PAYMENT** (\$) 1810**Complete if Known**

Application Number	10/809,205
Filing Date	March 25, 2004
First Named Inventor	Toshimitsu HIRAI
Examiner Name	Brian K. Talbot
Art Unit	1762
Attorney Docket No.	9319S-000717

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																																																															
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None				3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet.</td> <td></td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805</td> <td>1,840*</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251</td> <td>120</td> <td>2251</td> <td>60</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252</td> <td>450</td> <td>2252</td> <td>225</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253</td> <td>1020</td> <td>2253</td> <td>510</td> <td>Extension for reply within third month</td> <td>1020</td> </tr> <tr> <td>1254</td> <td>1,590</td> <td>2254</td> <td>795</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255</td> <td>2,160</td> <td>2255</td> <td>1080</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401</td> <td>500</td> <td>2401</td> <td>250</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>500</td> <td>2402</td> <td>250</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>1000</td> <td>2403</td> <td>500</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1452</td> <td>500</td> <td>2452</td> <td>250</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453</td> <td>1500</td> <td>2453</td> <td>750</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1462</td> <td>400</td> <td>1462</td> <td>400</td> <td>Petition fee under 37 CFR 1.17(f)</td> <td></td> </tr> <tr> <td>1463</td> <td>200</td> <td>1463</td> <td>200</td> <td>Petition fee under 37 CFR 1.17(g)</td> <td></td> </tr> <tr> <td>1464</td> <td>130</td> <td>1464</td> <td>130</td> <td>Petition fee under 37 CFR 1.17(h)</td> <td></td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee under 37 CFR 1.17 (q)</td> <td></td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>1809</td> <td>790</td> <td>2809</td> <td>395</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>1810</td> <td>790</td> <td>2810</td> <td>395</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td>1801</td> <td>790</td> <td>2801</td> <td>395</td> <td>Request for Continued Examination (RCE)</td> <td>790</td> </tr> <tr> <td colspan="4">Other fee (specify) _____</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3) (\$1810)</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	120	2251	60	Extension for reply within first month		1252	450	2252	225	Extension for reply within second month		1253	1020	2253	510	Extension for reply within third month	1020	1254	1,590	2254	795	Extension for reply within fourth month		1255	2,160	2255	1080	Extension for reply within fifth month		1401	500	2401	250	Notice of Appeal		1402	500	2402	250	Filing a brief in support of an appeal		1403	1000	2403	500	Request for oral hearing		1452	500	2452	250	Petition to revive - unavoidable		1453	1500	2453	750	Petition to revive - unintentional		1462	400	1462	400	Petition fee under 37 CFR 1.17(f)		1463	200	1463	200	Petition fee under 37 CFR 1.17(g)		1464	130	1464	130	Petition fee under 37 CFR 1.17(h)		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))		1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))		1801	790	2801	395	Request for Continued Examination (RCE)	790	Other fee (specify) _____						*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$1810)	
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																														
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																
1051	130	2051	65	Surcharge - late filing fee or oath																																																																																																																																																																															
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																															
1053	130	1053	130	Non-English specification																																																																																																																																																																															
1812	2,520	1812	2,520	For filing a request for reexamination																																																																																																																																																																															
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																															
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																															
1251	120	2251	60	Extension for reply within first month																																																																																																																																																																															
1252	450	2252	225	Extension for reply within second month																																																																																																																																																																															
1253	1020	2253	510	Extension for reply within third month	1020																																																																																																																																																																														
1254	1,590	2254	795	Extension for reply within fourth month																																																																																																																																																																															
1255	2,160	2255	1080	Extension for reply within fifth month																																																																																																																																																																															
1401	500	2401	250	Notice of Appeal																																																																																																																																																																															
1402	500	2402	250	Filing a brief in support of an appeal																																																																																																																																																																															
1403	1000	2403	500	Request for oral hearing																																																																																																																																																																															
1452	500	2452	250	Petition to revive - unavoidable																																																																																																																																																																															
1453	1500	2453	750	Petition to revive - unintentional																																																																																																																																																																															
1462	400	1462	400	Petition fee under 37 CFR 1.17(f)																																																																																																																																																																															
1463	200	1463	200	Petition fee under 37 CFR 1.17(g)																																																																																																																																																																															
1464	130	1464	130	Petition fee under 37 CFR 1.17(h)																																																																																																																																																																															
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)																																																																																																																																																																															
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																															
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																															
1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																															
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																															
1801	790	2801	395	Request for Continued Examination (RCE)	790																																																																																																																																																																														
Other fee (specify) _____																																																																																																																																																																																			
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$1810)																																																																																																																																																																															
1. BASIC FILING FEE <table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1011</td> <td>300</td> <td>2011</td> <td>150</td> <td>Utility filing fee</td> <td></td> </tr> <tr> <td>1012</td> <td>200</td> <td>2012</td> <td>100</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1013</td> <td>200</td> <td>2013</td> <td>100</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1014</td> <td>300</td> <td>2014</td> <td>150</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005</td> <td>200</td> <td>2005</td> <td>100</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (1)</td> <td colspan="2">(\$0)</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1011	300	2011	150	Utility filing fee		1012	200	2012	100	Design filing fee		1013	200	2013	100	Plant filing fee		1014	300	2014	150	Reissue filing fee		1005	200	2005	100	Provisional filing fee		SUBTOTAL (1)				(\$0)																																																																																																																																			
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																														
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																
1011	300	2011	150	Utility filing fee																																																																																																																																																																															
1012	200	2012	100	Design filing fee																																																																																																																																																																															
1013	200	2013	100	Plant filing fee																																																																																																																																																																															
1014	300	2014	150	Reissue filing fee																																																																																																																																																																															
1005	200	2005	100	Provisional filing fee																																																																																																																																																																															
SUBTOTAL (1)				(\$0)																																																																																																																																																																															
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE <table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>50</td> <td>2202</td> <td>25</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>200</td> <td>2201</td> <td>100</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>360</td> <td>2203</td> <td>180</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>1204</td> <td>200</td> <td>2204</td> <td>100</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>50</td> <td>2205</td> <td>25</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (2)</td> <td colspan="2">(\$0)</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	50	2202	25	Claims in excess of 20		1201	200	2201	100	Independent claims in excess of 3		1203	360	2203	180	Multiple dependent claim, if not paid		1204	200	2204	100	** Reissue independent claims over original patent		1205	50	2205	25	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)				(\$0)																																																																																																																																			
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																														
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																
1202	50	2202	25	Claims in excess of 20																																																																																																																																																																															
1201	200	2201	100	Independent claims in excess of 3																																																																																																																																																																															
1203	360	2203	180	Multiple dependent claim, if not paid																																																																																																																																																																															
1204	200	2204	100	** Reissue independent claims over original patent																																																																																																																																																																															
1205	50	2205	25	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																															
SUBTOTAL (2)				(\$0)																																																																																																																																																																															

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY			Complete (if applicable)		
Name (Print/Type)	G. Gregory Schivley Bryant E. Wade	Registration No. (Attorney/Agent)	27,382 40,344	Telephone	248-641-1600
Signature		Date	April 5, 2007		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.